As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and

| patent is sought on the | names e invent | are listed below) of th ion entitled: ce With Increased Light | e subject matter wh | ich is claimed a | and for which a |
|---|-------------------------------------|--|---|--|--|
| | | ttached hereto unless th | | - | |
| | | | | | |
| Number | and | as US Appli was amended on | cation Serial No. or F (if a | PCT Internationa applicable). | I Application |
| including the claims, a | as amer | viewed and understood nded by any amendmen is material to patentabil | it(s) referred to abou | ze. Lacknowie | ed specification, dge the duty to |
| Foreign Application(s) and/o | r Claim of | Foreign Priority | | | |
| inventor(s) certificate listed | below an | ts under Title 35, United Stat d have also identified below a tion on which priority is clain | any foreign application for | any foreign applica patent or inventor | tion(s) for patent or (s) certificate having |
| COUNTRY | | APPLICATION NUMBER | DATE FILED | PRIORITY CLAIMED | UNDER 35 U.S.C. 119 |
| | | | | YES: | NO: |
| | | | | YES: | NO: |
| Provisional Application | | | | | |
| I hereby claim the benefit u below: | nder Title | 35, United States Code Sec | tion 119(e) of any United | d States provisional | application(s) listed |
| | AF | PLICATION SERIAL NUMBER | FILING DATE | | |
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| | | | | . | at the second se |
| U. S. Priority Claim | | | <u> </u> | <u>. </u> | |
| information as defined in Titl | t paragra _l le 37, Co | of the claims of this applicated of Title 35, United States de of Federal Regulations, Secternational filing date of this a | Code Section 112, Lack ction 1.56(a) which occur | nowledge the duty | to disclose material |
| APPLICATION SERIAL NUME | BER | FILING DATE | STATUS (| patented/pending/abandor | red) |
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| | | | | | |
| POWER OF ATTORNEY: As a named inventor, I her business in the Patent and Tr | eby appo rademark | oint the following attorney(s) Office connected therewith: | and/or agent(s) to prose | ecute this applicati | on and transact all |
| Customer | Number | 022878 | Place Customer Number Bar Code Label here | | |
| Send Correspondence to: AGILENT TECHNOLOGIE | | | Direct Telephor | ne Calls To: | |
| Legal Department, 51UP | Ď | | Pamela Lau Kee | | |
| Intellectual Property Adm P.O. Box 58043 | inistration | 1 | . (408) 553-3059 | | |
| Santa Clara, California 95 | 5052-804 | 3 | , (100, 000 0000 | | , |
| with the knowledge timprisonment, or both, | ind bel that wi , under | ments made herein of nief are believed to be to the little false statements and Section 1001 of Title to the validity of the app | true; and further tha and the like so ma 18 of the United Sta | it these statemo ide are punisha ites Code and i | ents were made able by fine or that such willful |
| Full Name of Inventor: Mic | hael R I | Crames | Citizenship: US | · ; | |
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| // / / / | 1 1 | | | | |

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| Inventor's Signature | sho fan | Dec - 22 - 1999 | . |
| Full Name of # 7 joint inv | ventor: | Citizenship: | |
| Residence: | | | |
| Post Office Address: | | | |
| Inventor's Signature | | Date | - |
| Full Name of # 8 joint inv | ventor: | Citizenship: | |
| Residence: | - | | |
| Post Office Address: | | | |
| Inventor's Signature | | Date | |
| - | | ₩ate | 3 |



Applicant(s):

Kish Jr., Fred A.; Krames, Michael R.; Rajkomar, Pradeep; Steigerwald,

Daniel A.: Tan, Tun S.; Wierer Jr., Jonathan J.

Assignee:

Lumileds Lighting U.S., LLC

Title:

III-Nitride Light-Emiting Device With Increased Light Generating

Capability

Serial No.:

09/469,657

Filing Date:

December 22, 1999

Examiner:

Unknown

Group Art Unit:

2811

Docket No.:

10992072-1 (M-9152 US)

COMMISSIONER FOR PATENTS

Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST

Sir:

The above-identified assignee hereby revokes all powers of attorney previously given and appoints hereby the following attorney(s) and/or agent(s) to prosecute the above-identified application and to transact all business in the United States Patent and Trademark Office in connection therewith:

Alan H. MacPherson (24,423); Brian D. Ogonowsky (31,988); David W. Heid (25,875); Norman R. Klivans (33,003); Edward C. Kwok (33,938); David E. Steuber (25,557); Michael Shenker (34,250); Stephen A. Terrile (32,946); Peter H. Kang (40,350); Ronald J. Meetin (29,089); Ken John Koestner (33,004); Omkar K. Suryadevara (36,320); David T. Millers (37,396); Michael P. Adams (34,763); Robert B. Morrill (43,817); James E. Parsons (34,691); Philip W. Woo (39,880); Emily Haliday (38,903); Tom Hunter (38,498); Michael J. Halbert (40,633); Gary J. Edwards (41,008); Daniel P. Stewart (41,332); Tom Chen (42,406); Fabio E. Marino (43,339); Don C. Lawrence (31,975); Marc R. Ascolese (42,268); Carmen C. Cook (42,433); David G. Dolezal (41,711); Roberta P. Saxon (43,087); Mary Jo Bertani (42,321); Dale R. Cook (42,434); Sam G. Campbell (42,381); Matthew J. Brigham (44,047); Shireen Irani Bacon (40,494); Rory G. Bens (44,028); George Wolken, Jr. (30,441); John A. Odozynski (28,769); Paul E. Lewkowicz (44,870); Theodore P. Lopez (44,881); Eric Stephenson (38,321); Christopher Allenby (45,906); David C. Hsia (46,235); Mark J. Rozman (42,117); Margaret M. Kelton (44,182); Do Te Kim (46,231); Alex Chen (45,591); Monique M. Heyninck (44,763); Gregory J. Michelson (44,940); Jonathan Geld (44,702); Emmanuel Rivera (45,760); Jason FarHadian (42,523); Matthew J. Spark (43,453); Elaine H. Lo (41,158); Jon Hallman (42,622); Robert Strawbrich (36,692); Rita M. Wisor (41,382); Gregory Powell (47,005); Mark E. Schmidt (47,063); and Rachel V. Leiterman (46,868).

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ASSIGNEE CERTIFICATION UNDER 37 CFR 3.73(B)

The undersigned representative of the above-identified assignee certifies that the above-identified assignee is the assignee of the entire right, title and interest in the above-identified patent application by virtue of a chain of title from the inventor(s) of the above-identified patent application to the above-identified assignee as shown below:

1. From: Kish Jr., Fred A.; Krames, Michael R.; Rajkomar, Pradeep; Steigerwald, Daniel A.; Tan, Tun S.; Wierer Jr., Jonathan J. To: LumiLeds Lighting U.S., LLC. The document was submitted to the Patent and Trademark Office for recordation on April 1, 2000. A copy of the document is attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified assignee.

Dated: 31 cztus

LumiLeds Lighting, U.S., LLC

Name: Steve Paolini

Title: Intellectual Property Manager

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